

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a system for simultaneously removing dust and volatile toxic organic compounds. The system comprises a dust collecting unit disposed between an inlet duct and an outlet duct for removing dust, an organic compound removing unit disposed between the inlet duct and the outlet duct for removing volatile toxic organic compounds, and an inlet blower disposed between the dust collecting unit and the organic compound removing unit. The dust collecting unit is made up of a bag filter, which comprises a housing formed in the shape of a box and connected to the inlet duct, a plurality of filtering members, such as cloth or felt, arranged in the housing, and dust collecting layers defined between the housing and the filtering members. The organic compound removing unit comprises an absorbing apparatus for absorbing the volatile toxic organic compounds, and regenerating heaters attached on the outer circumference of the absorbing apparatus.